



Figure 1B

List of Foods Approved for Irradiation in the USA

Product	Type of Clearance	Date	Dose Max (kGy)
Animal Feed and Pet Food	Unconditional	Sep-95	25.00
Apple	Unconditional	Apr-86	1.00
Apricot	Unconditional	Apr-86	1.00
Apricot (dried)	Unconditional	Apr-86	1.00
Avacado	Unconditional	Apr-86	1.00
Banana	Unconditional	Apr-86	1.00
Cherries	Unconditional	Apr-86	1.00
Chicken	Unconditional	May-90	3.00
Chicken Meat (Mechanically Seperated)	Unconditional	May-90	3.00
Currants, Red	Unconditional	Apr-86	1.00
Dates	Unconditional	Apr-86	1.00
Enzymes (Dehydrated)	Unconditional	Apr-86	10.00
Figs (Dried)	Unconditional	Apr-86	1.00
Fruit	Unconditional	Apr-86	1.00
Fruit/s (Dried)	Unconditional	Apr-86	1.00
Grapes	Unconditional	Apr-86	1.00
Guava	Unconditional	Apr-86	1.00
Herbs	Unconditional	Apr-86	30.00
Jujube (Dried)	Unconditional	Apr-86	1.00
Lemon	Unconditional	Apr-86	1.00
Litchi	Unconditional	Apr-86	1.00
Mandarin	Unconditional	Apr-86	1.00
Mango	Unconditional	Apr-86	1.00
Meat	Unconditional	Dec-97	4.50
Melon	Unconditional	Dec-97	7.00
Orange	Unconditional	Apr-86	1.00
Papaya	Unconditional	Apr-86	1.00
Potato	Unconditional	Jan-64	0.15
Pear	Unconditional	Apr-86	1.00
Persimmon	Unconditional	Apr-86	1.00
Pineapple	Unconditional	Apr-86	1.00
Plum	Unconditional	Apr-86	1.00
Pork	Unconditional	Jul-85	1.00
Poultry	Unconditional	Mar-90	3.00
Poultry Products	Unconditional	Mar-90	3.00
Raisins	Unconditional	Apr-86	1.00
Spices	Unconditional	Apr-86	30.00
Strawberry	Unconditional	Apr-86	1.00
Vegetables	Unconditional	Apr-86	1.00
Vegetables (Dried)	Unconditional	Apr-86	1.00
Vegetable Seasonings	Unconditional	Apr-86	30.00
Wheat	Unconditional	Jan-63	0.50
Wheat Flour	Unconditional	Jan-63	0.50
White Potatoes	Unconditional	Jan-64	0.15

```
graph TD; 100[Telemetrically obtain data associated with sensor (after exposure to radiation)] --> 110[Compare data obtained from sensor to predetermined values]; 110 --> 120[Identify radiation dose based on the comparing step]; 120 -.-> 130[Automatically input radiation dose into process control record];
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The flowchart illustrates a four-step process for identifying radiation dose. Step 100, 'Telemetrically obtain data associated with sensor (after exposure to radiation)', leads to Step 110, 'Compare data obtained from sensor to predetermined values'. Step 110 leads to Step 120, 'Identify radiation dose based on the comparing step'. Step 120 leads to Step 130, 'Automatically input radiation dose into process control record', which is enclosed in a dashed box. Arrows indicate the flow between steps, with a dashed arrow for the final step.

FIG. 2

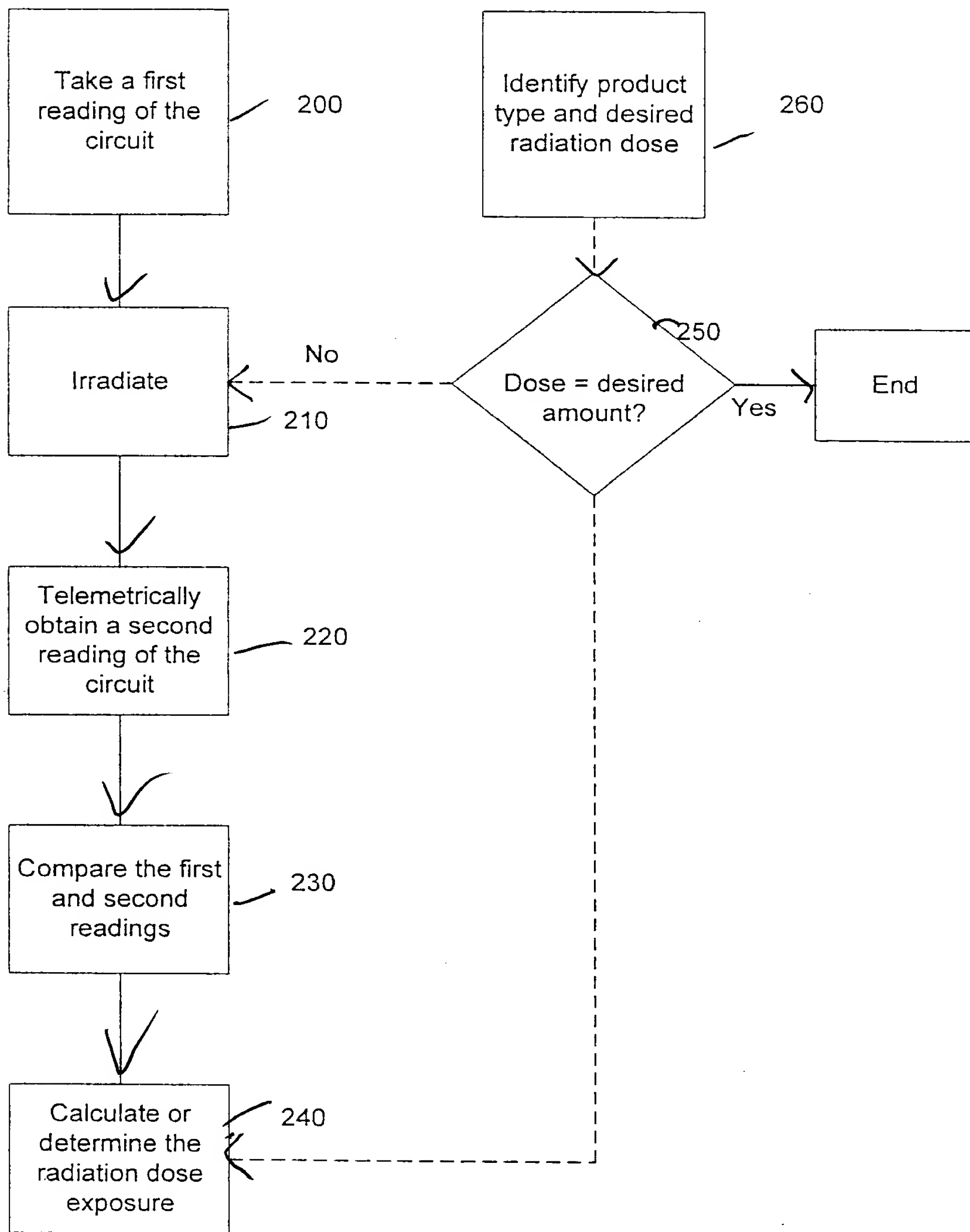


Fig. 3

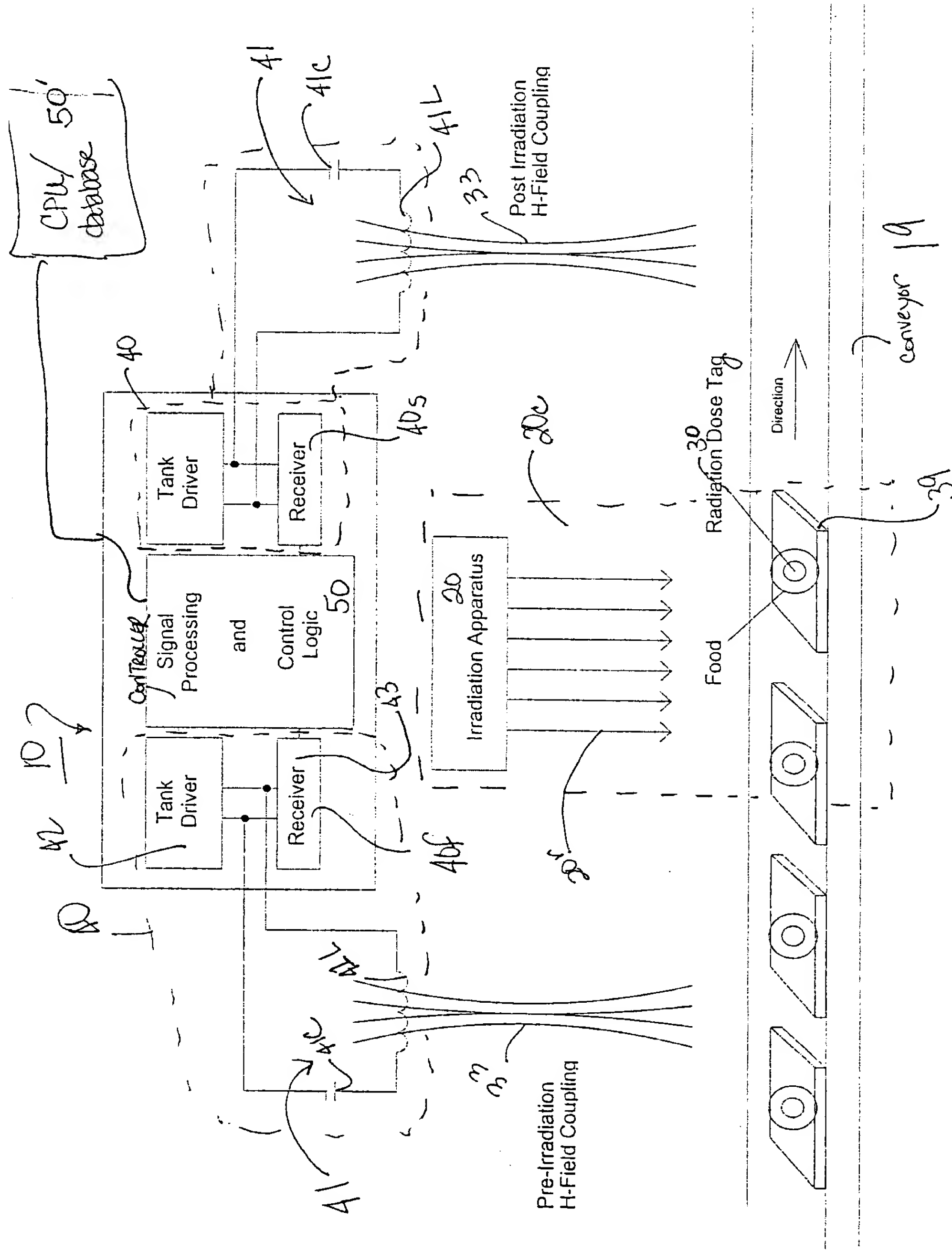


Figure 4

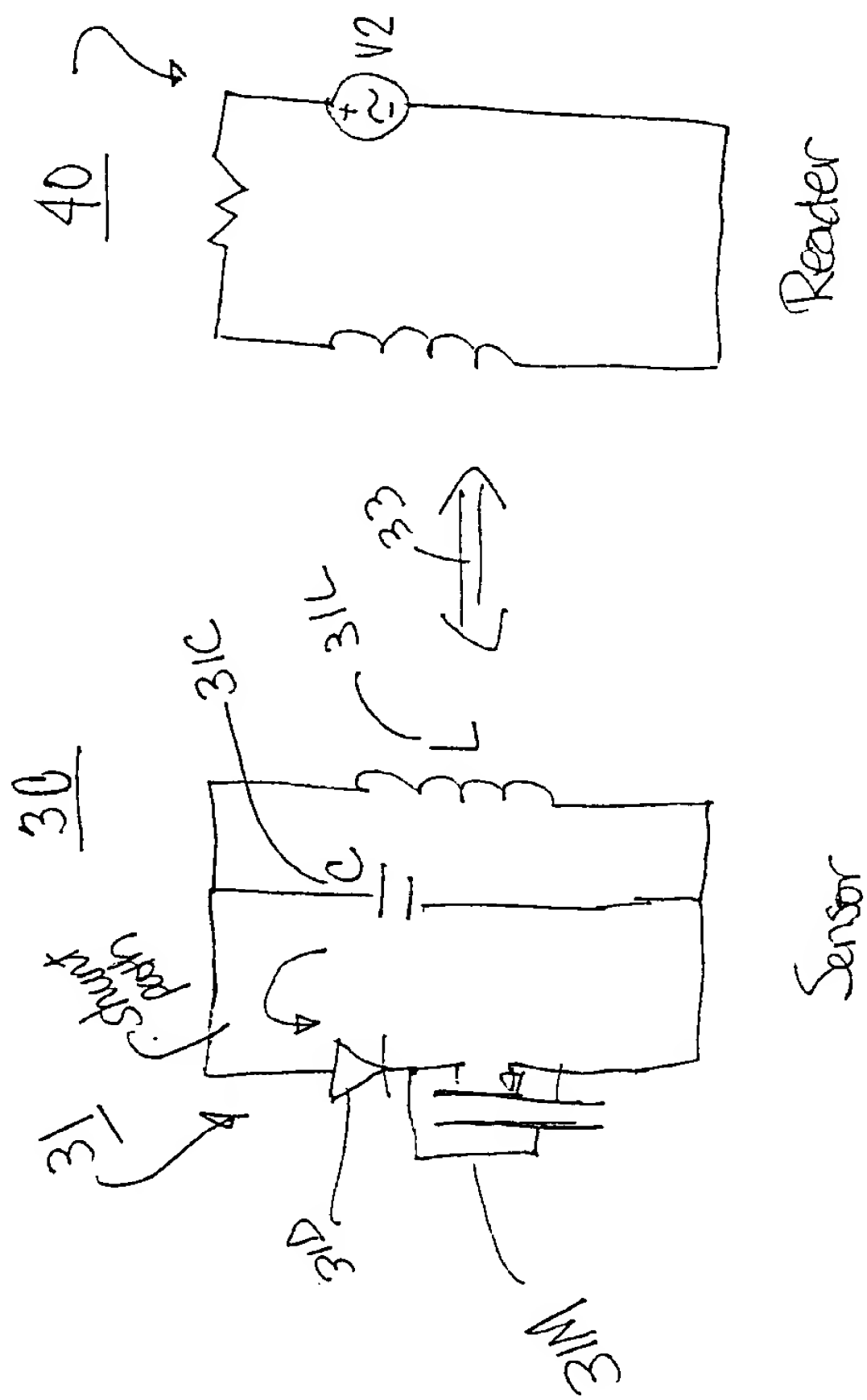
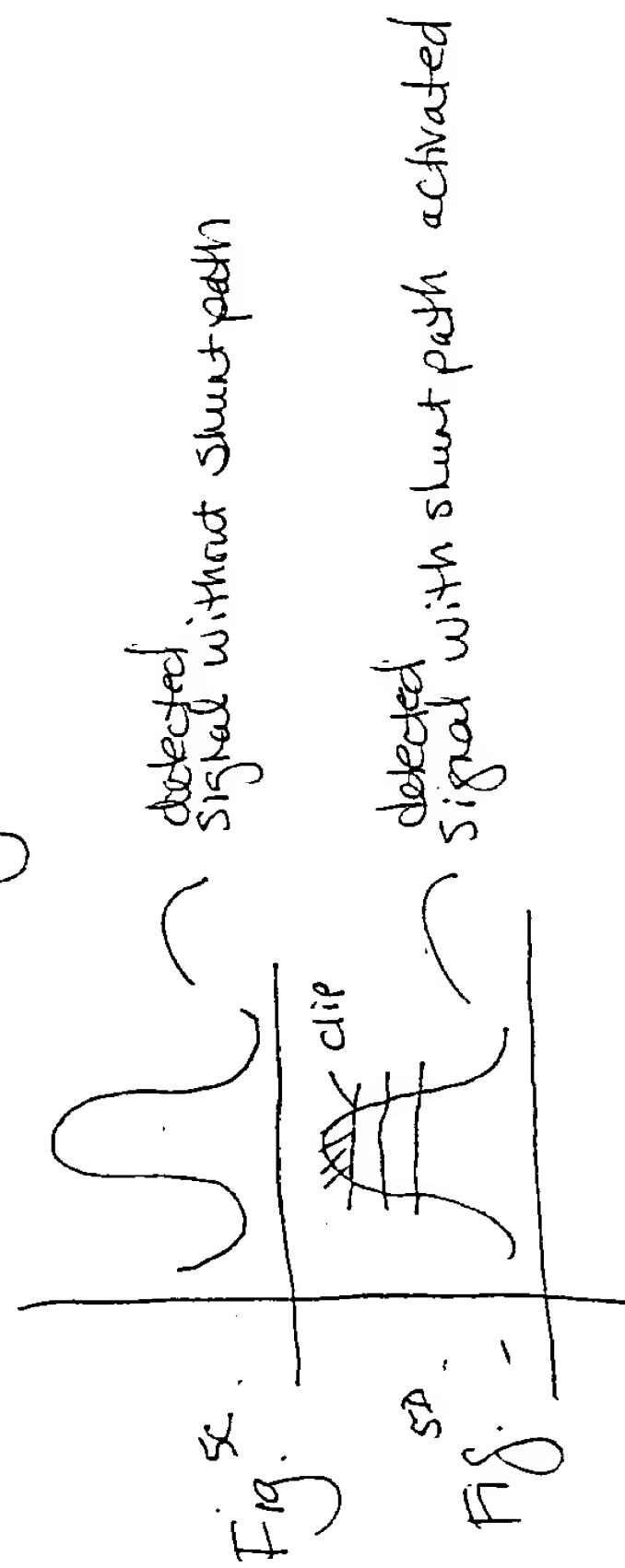


Figure 5A



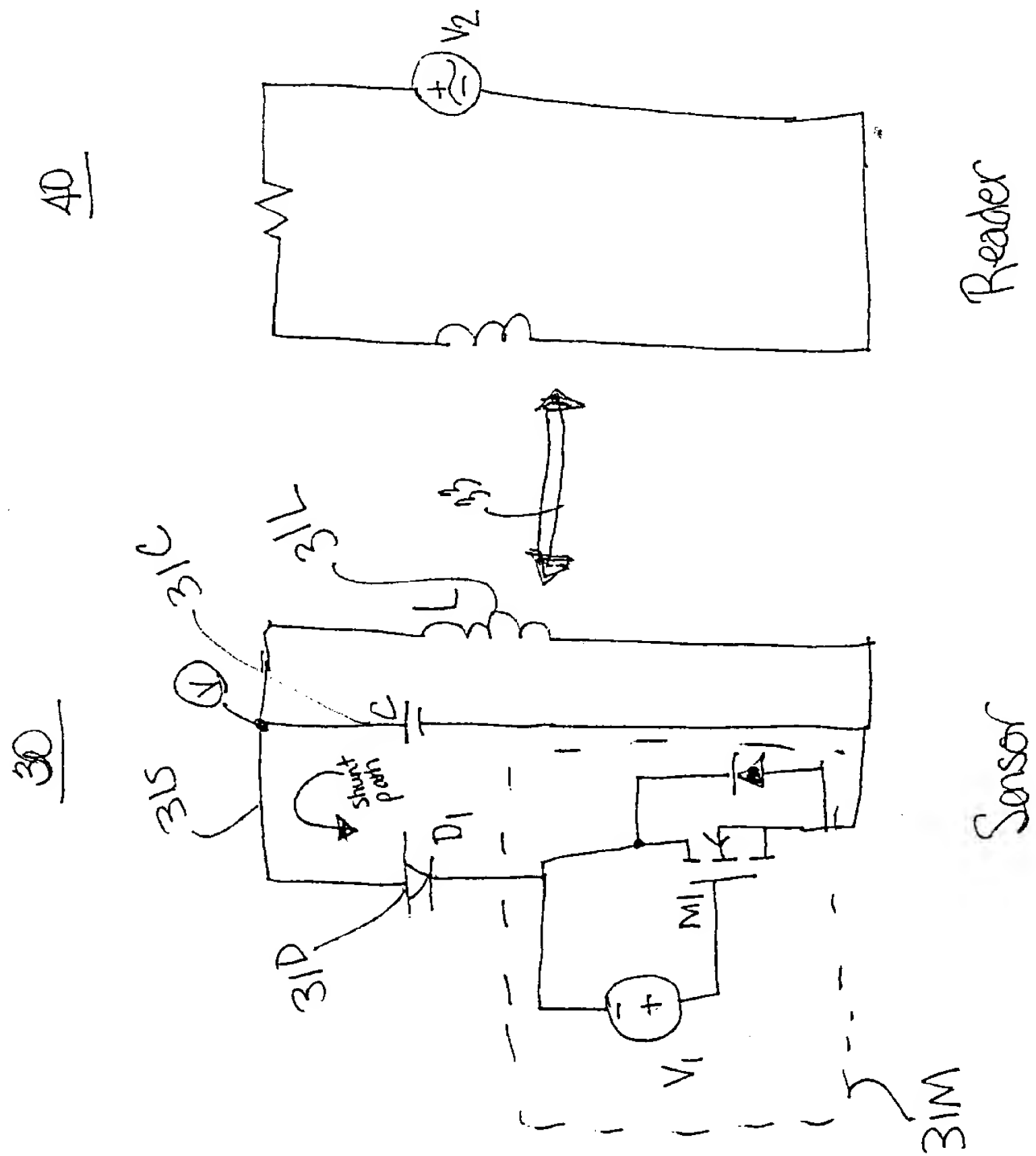


Figure 5B





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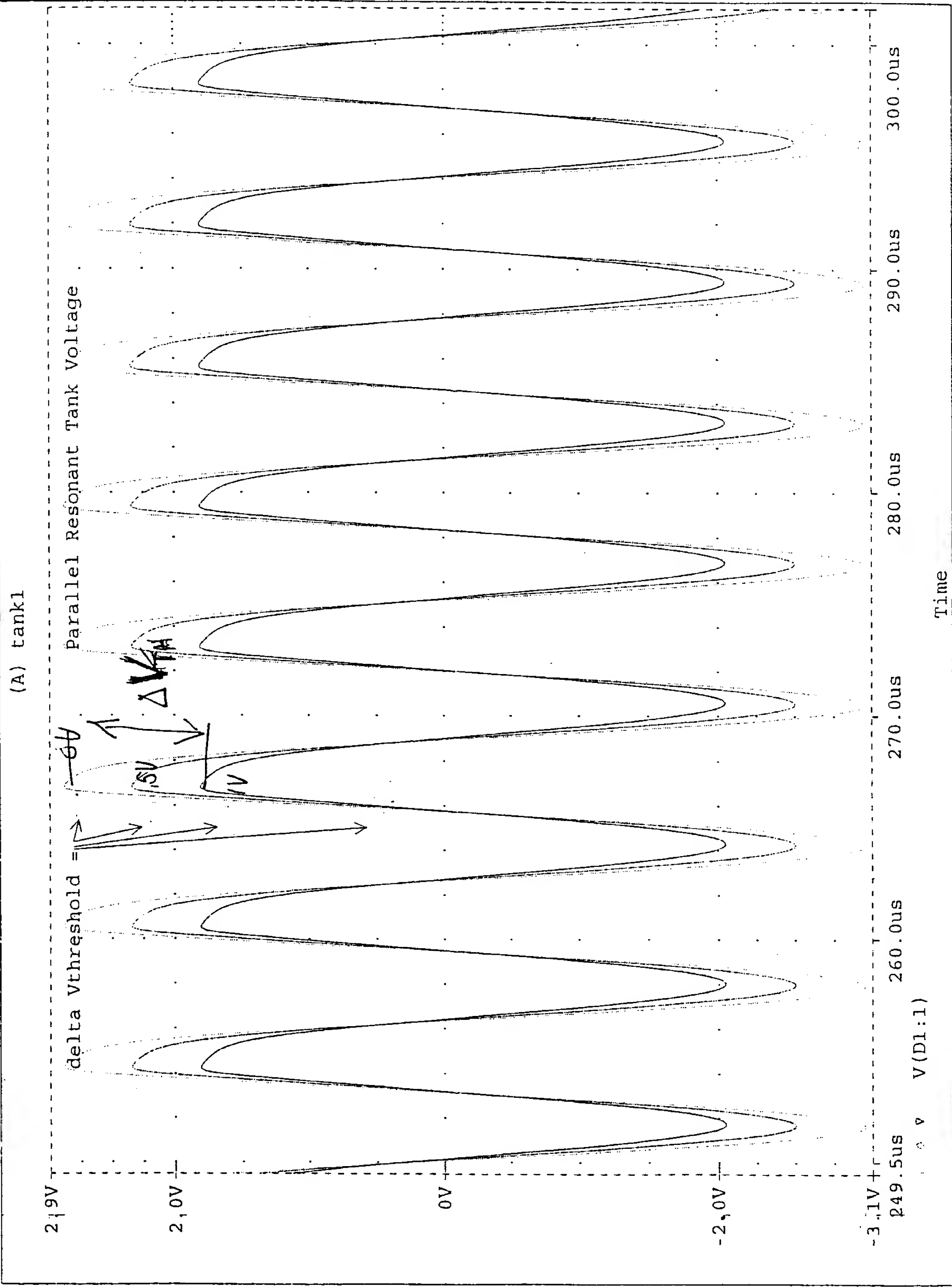
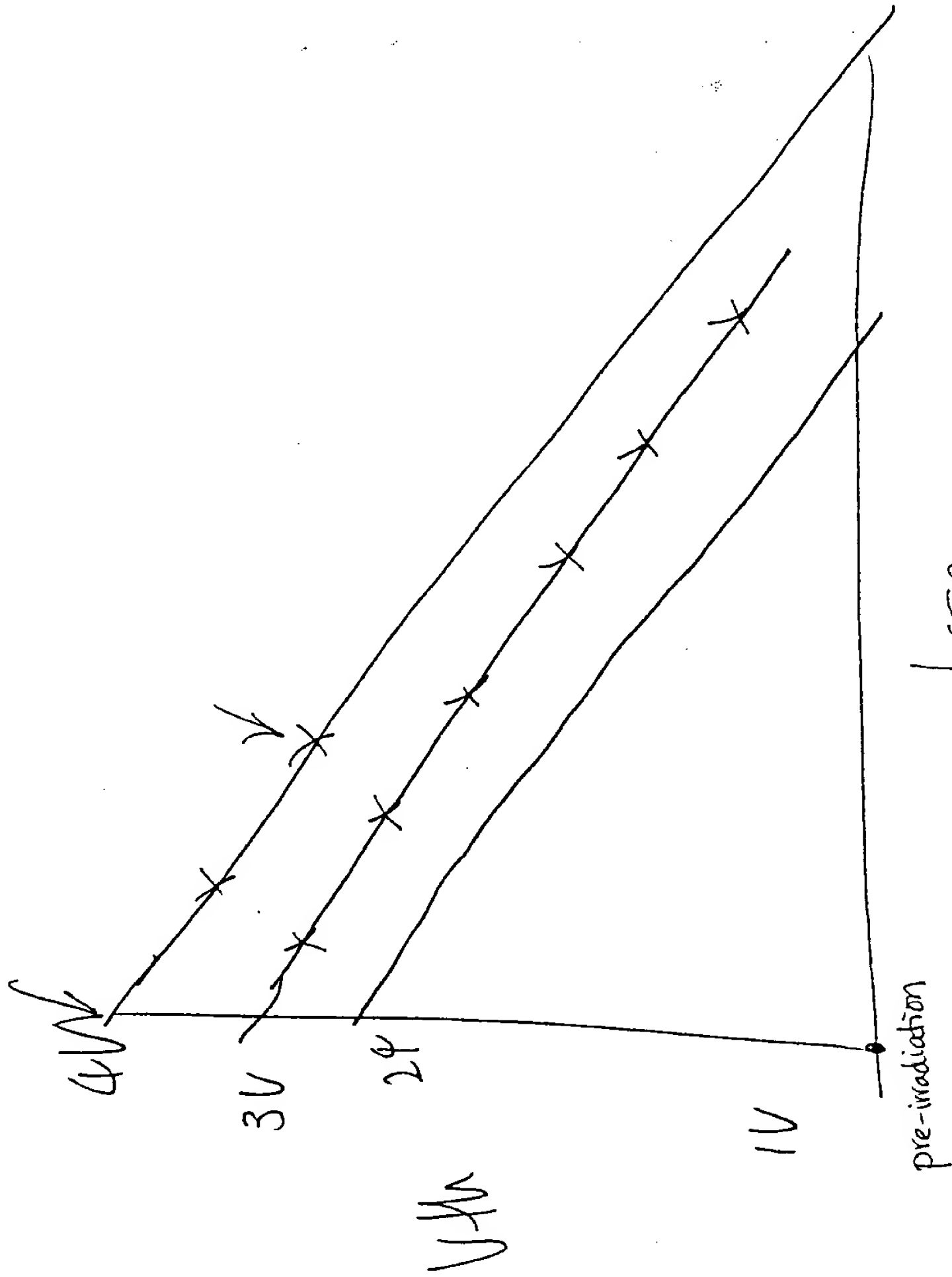


Figure 6A

N channel



dose  
 post-irradiation

Figure 6B

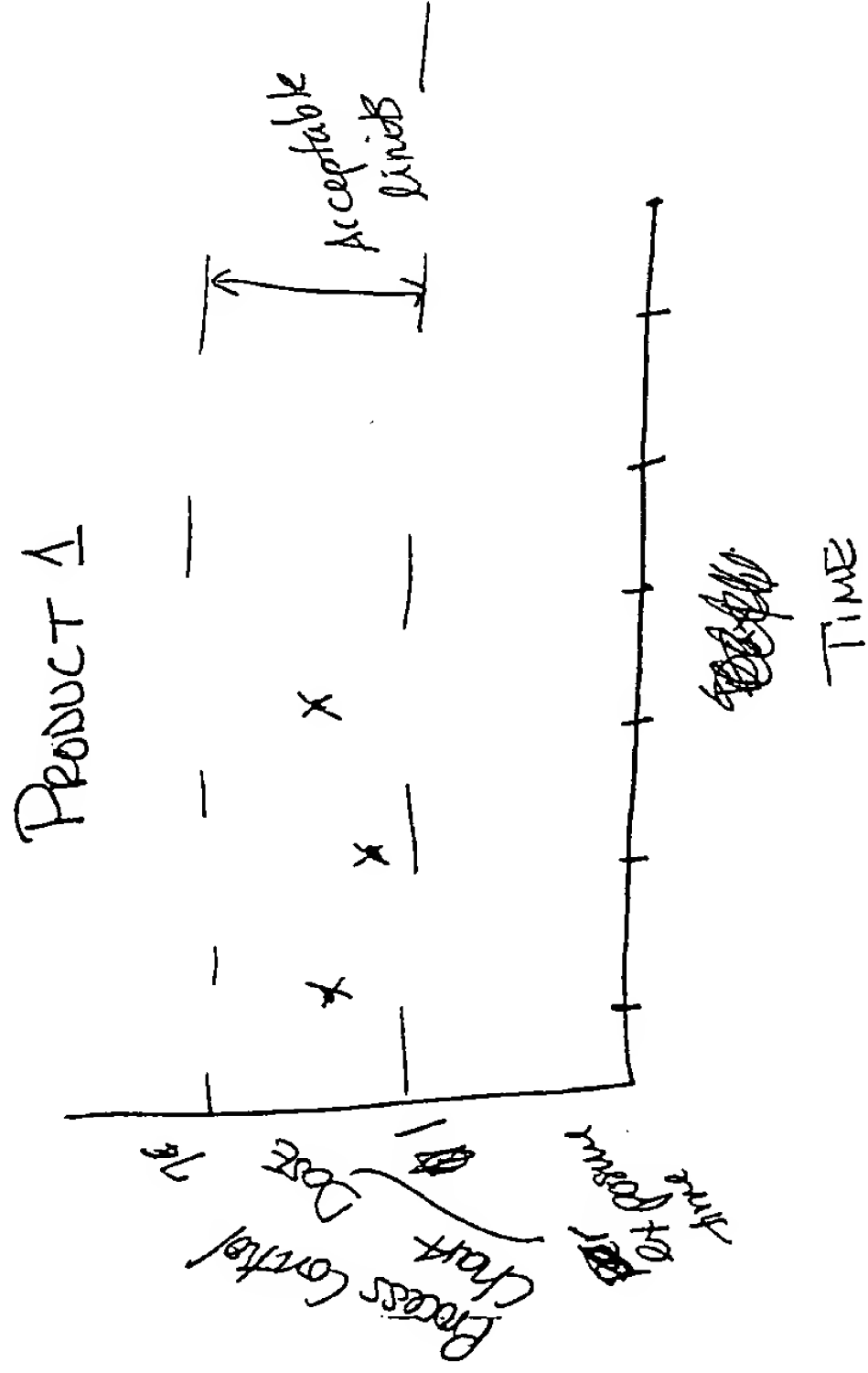


FIG. 7A

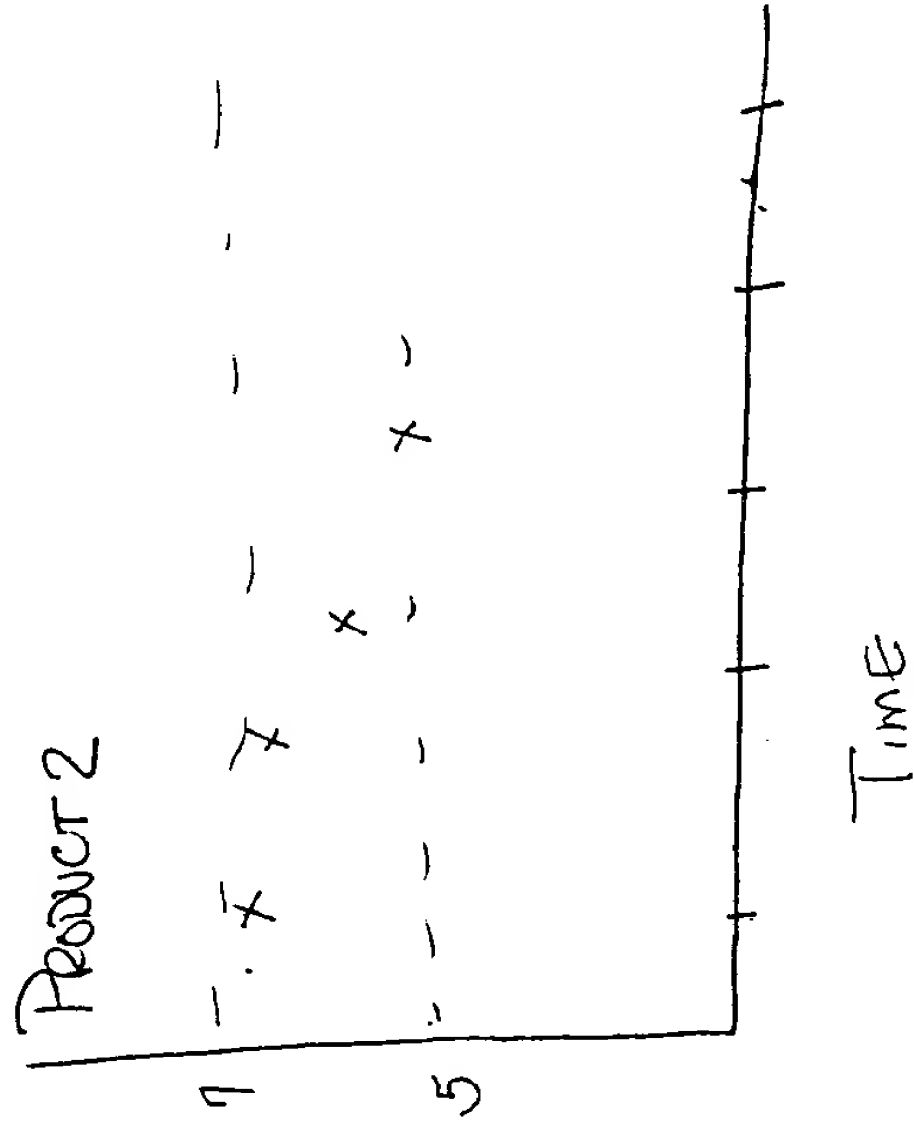


FIG. 7B

(A) tank1

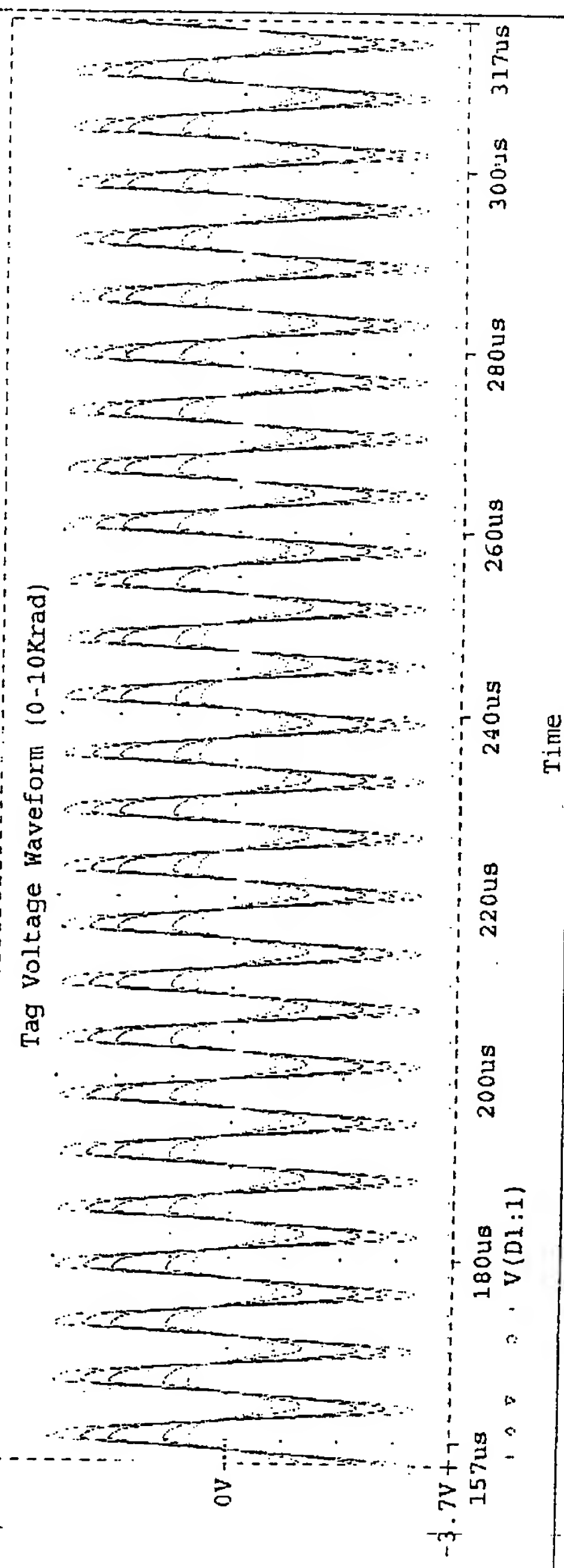
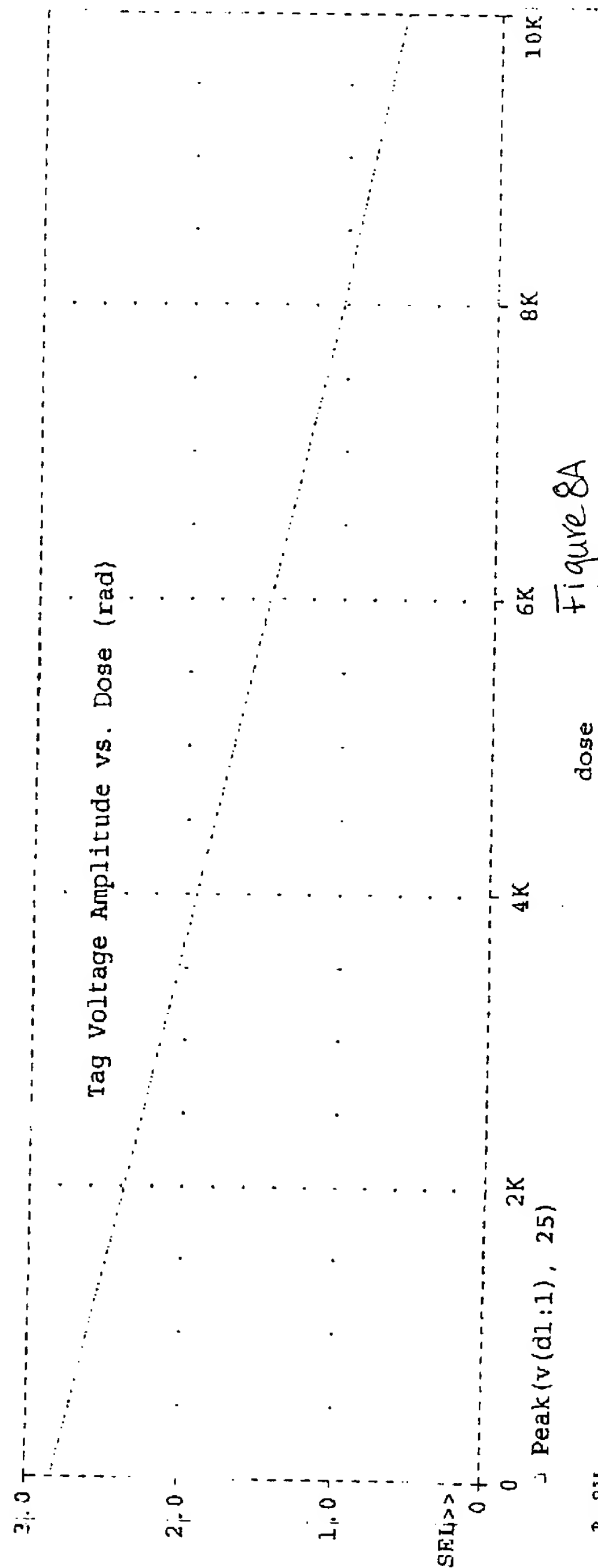




Figure 9A

(B) tank1



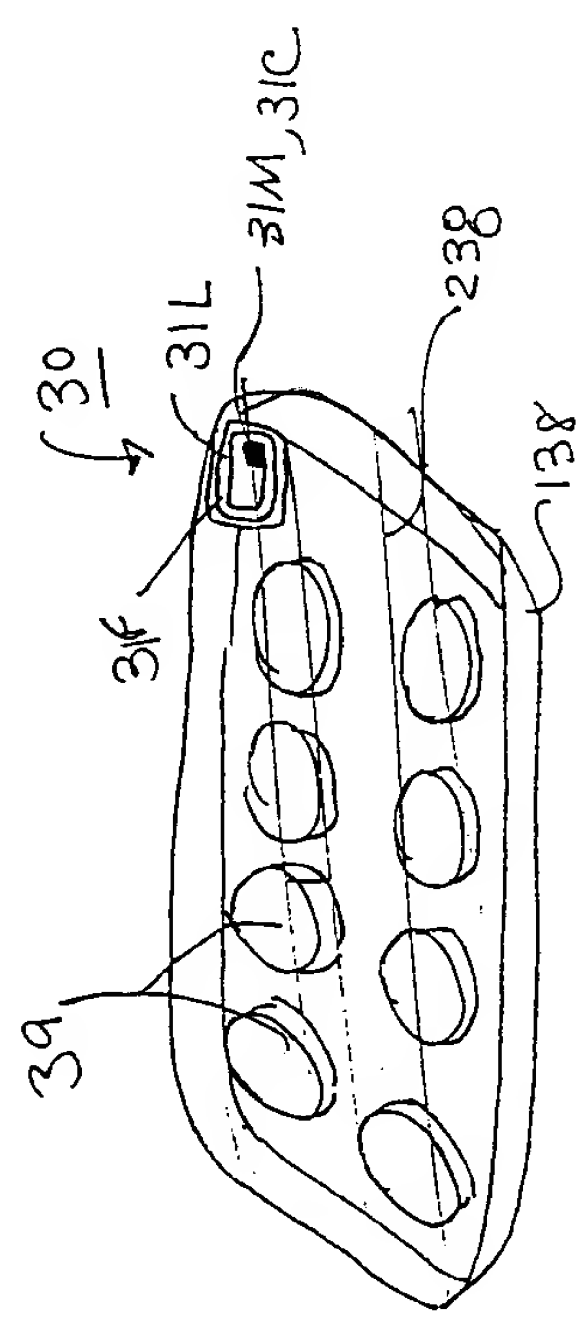


Figure 10

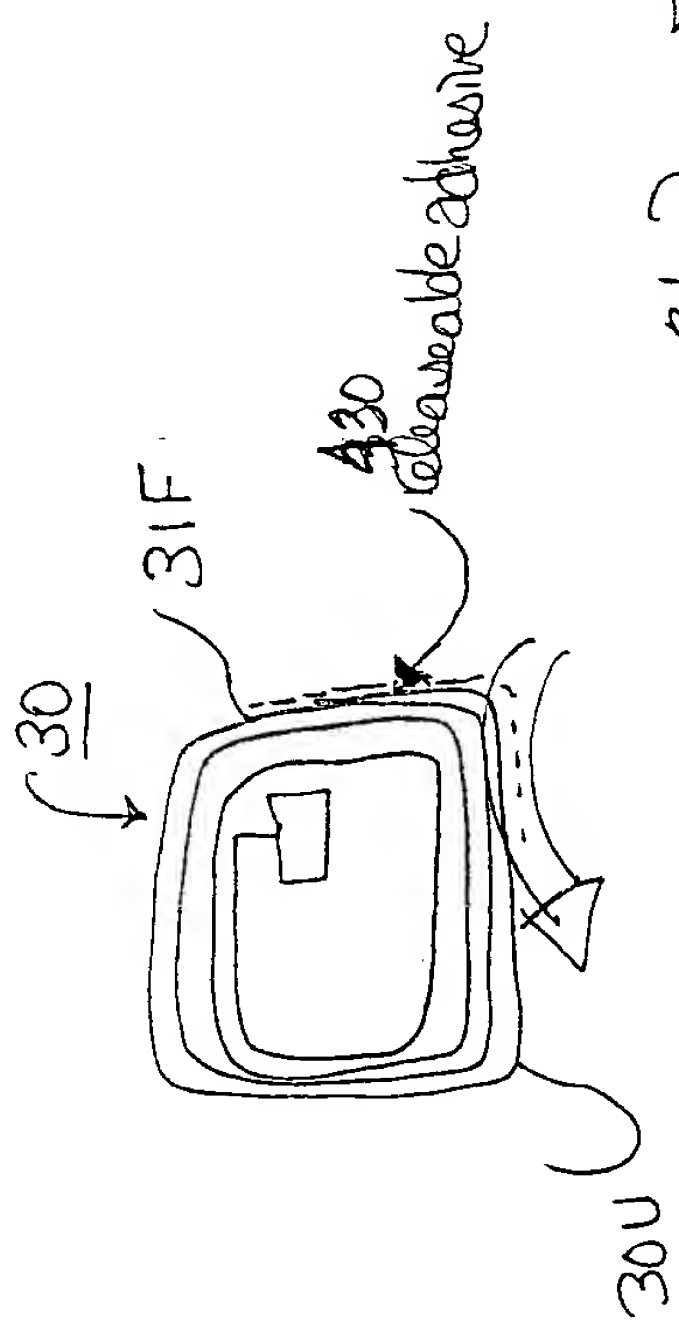


Figure 11A

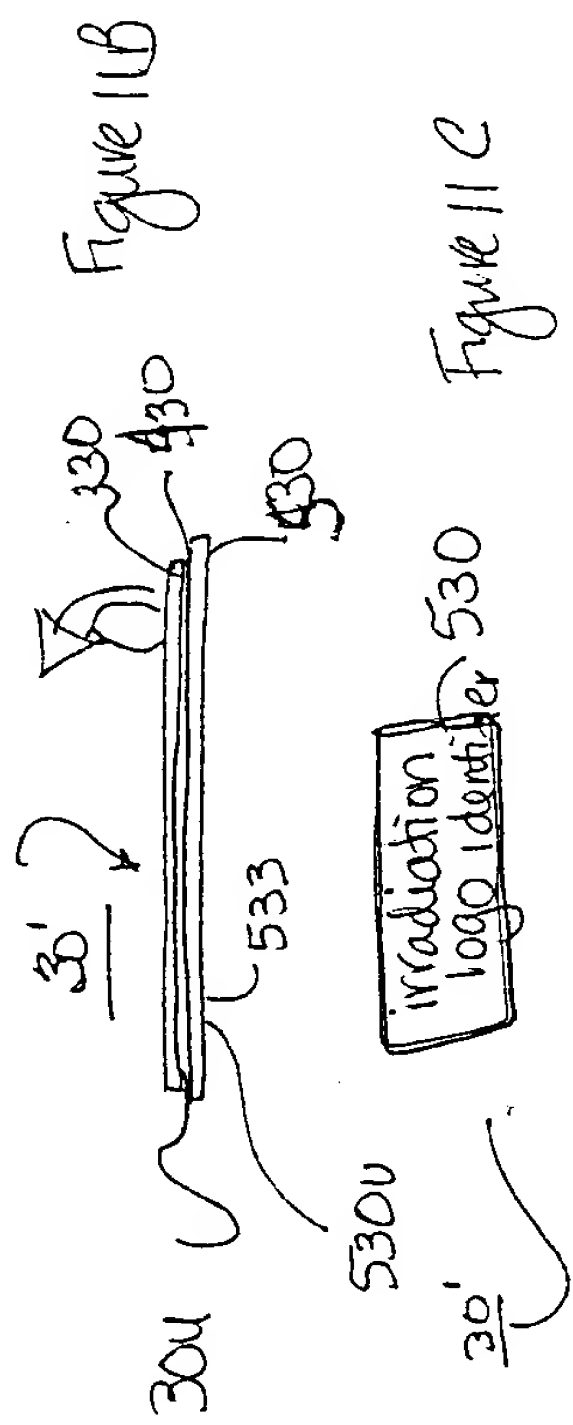


Figure 11B

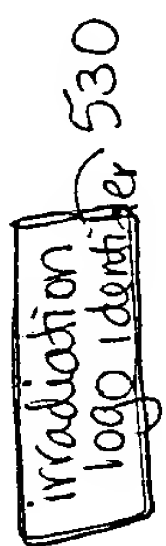


Figure 11C

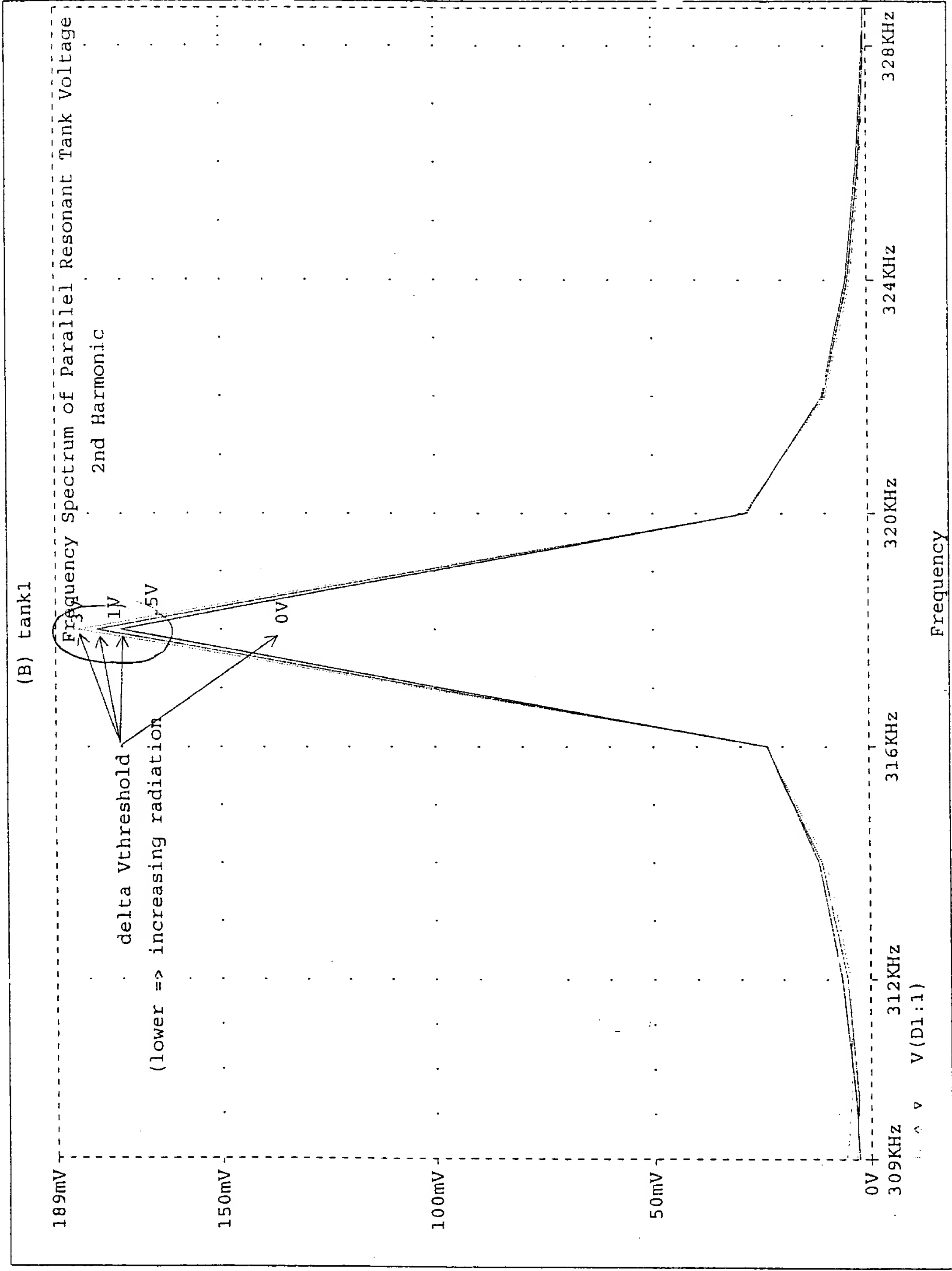


Figure AC





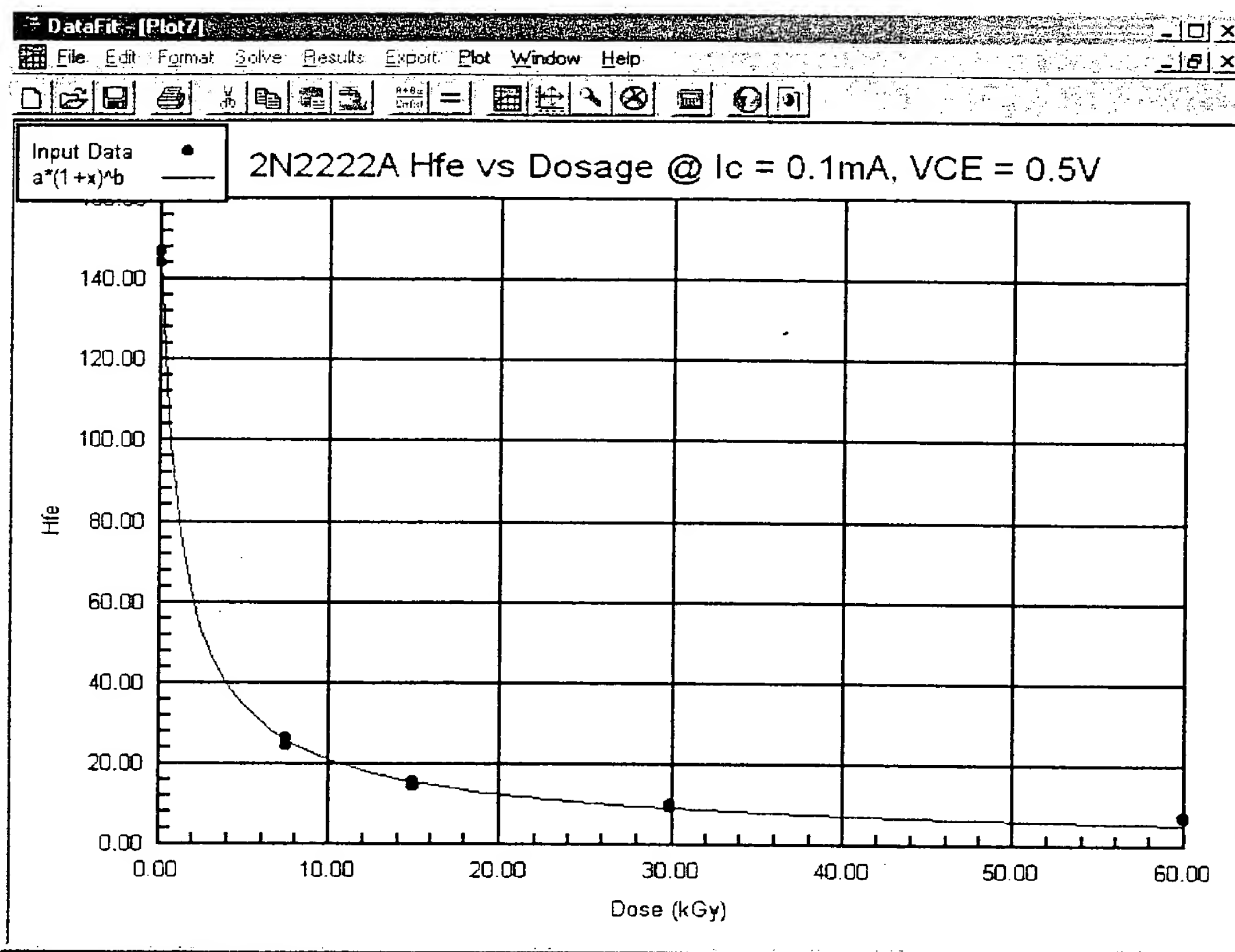


Figure 13, 2N2222A Hfe vs. Total Dose.

Figure 13

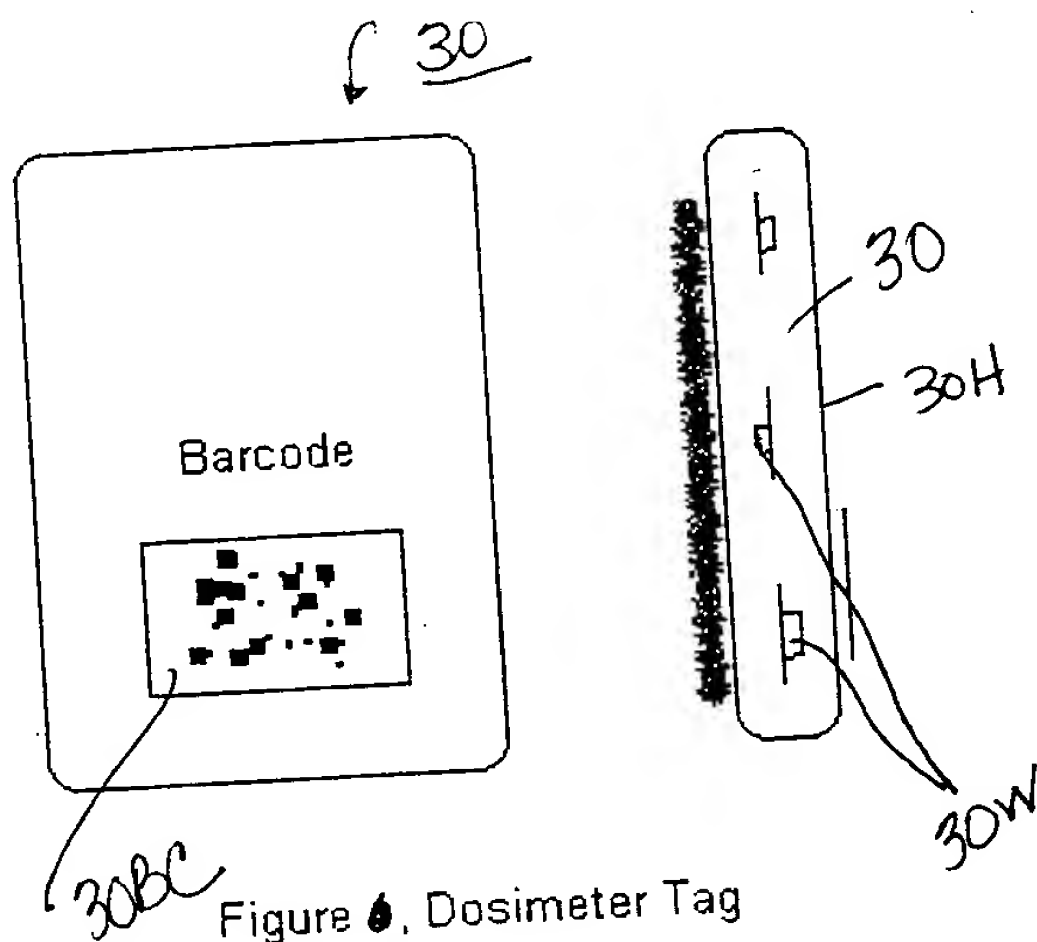


Figure 6. Dosimeter Tag  
14

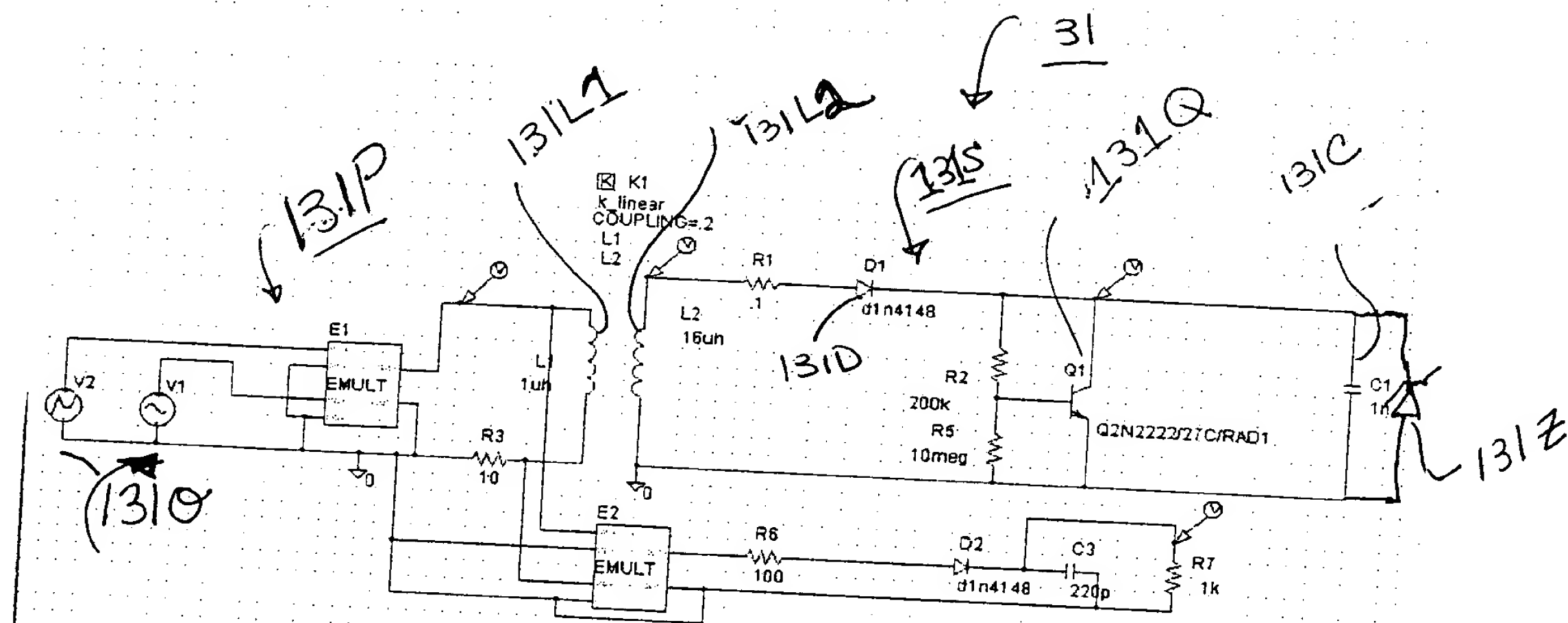


Fig. 17

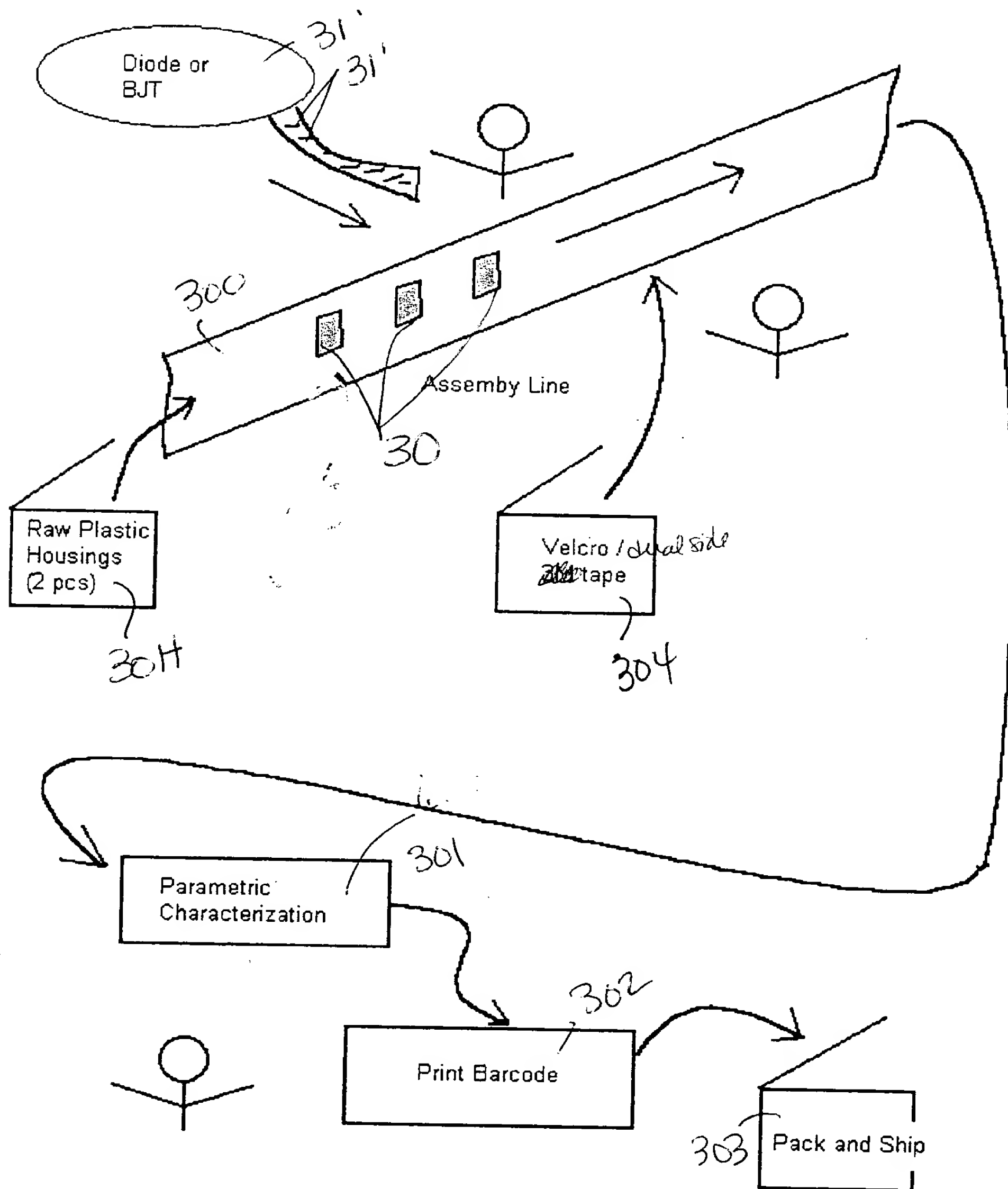


Figure 1. Tag Manufacture

Figure 7. Processing Plant Flow

16

16

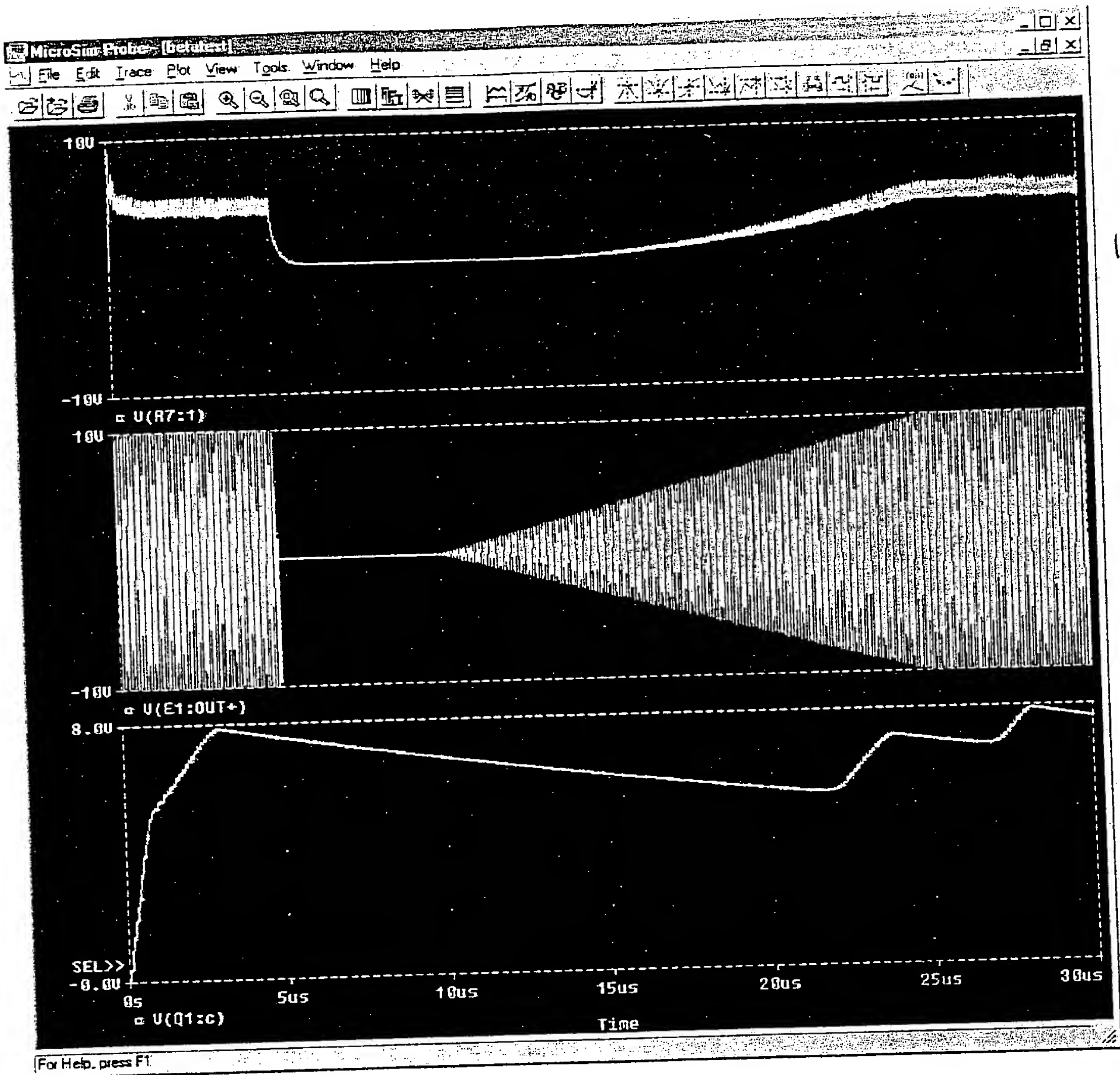


Figure 18, Operational waveforms.  
18A-18C

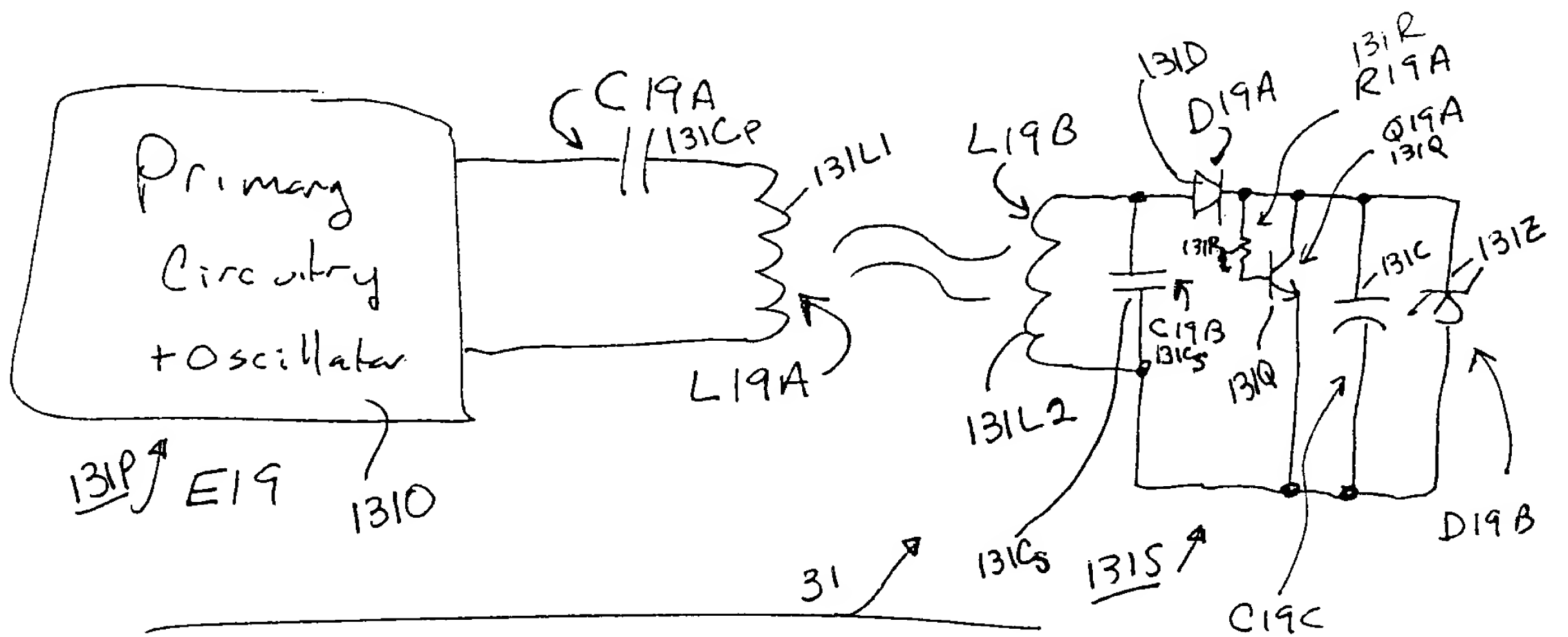


Figure 19

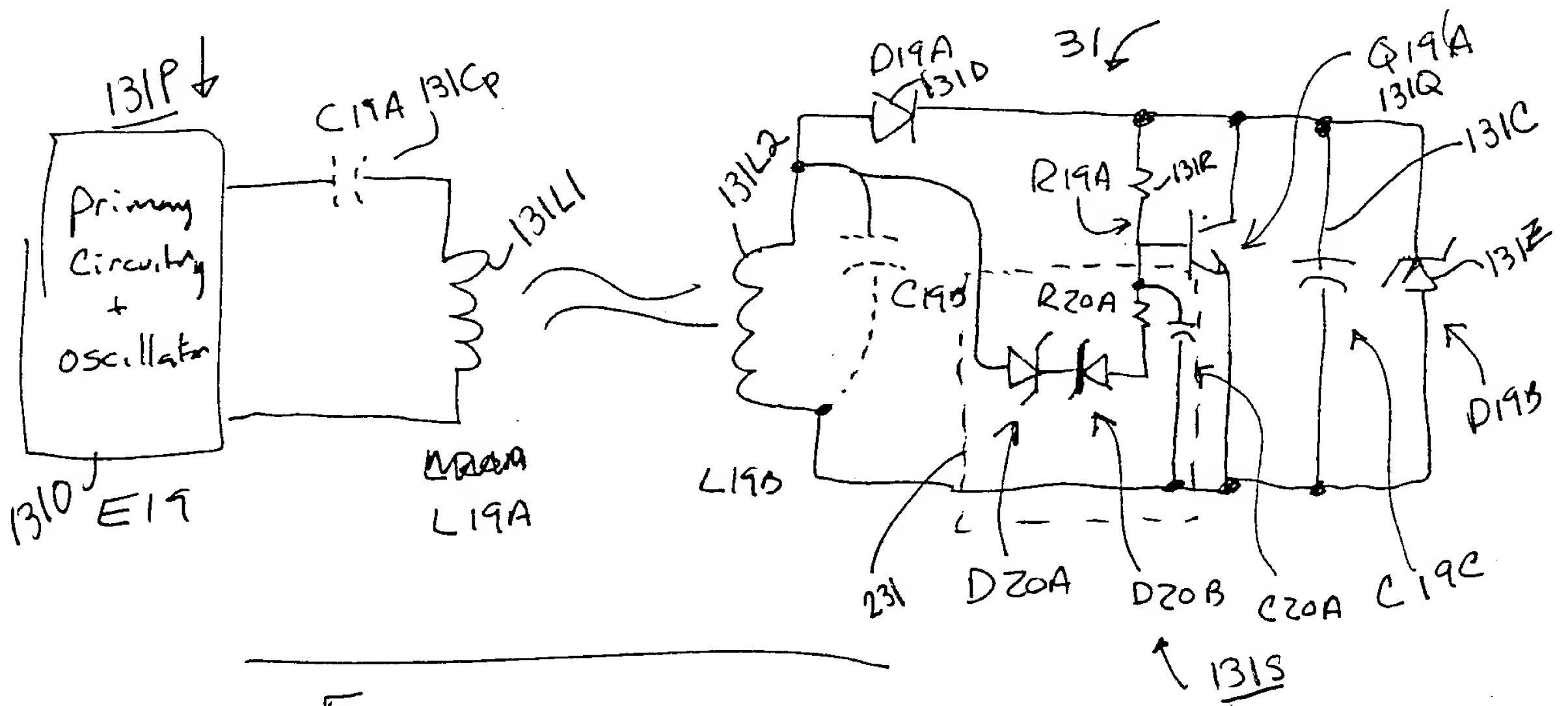
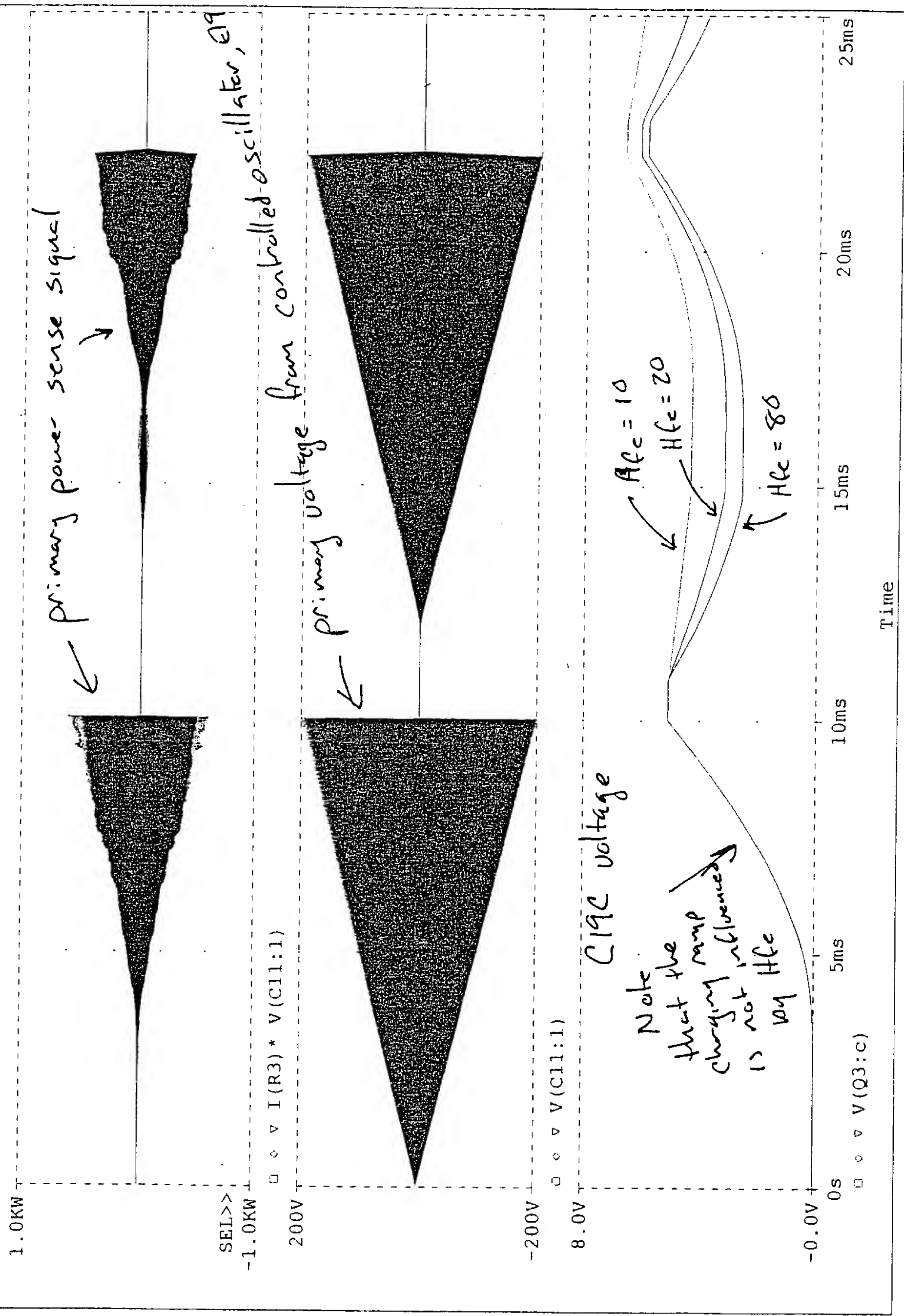


Figure 20.

Temperature: 27.0

(F) betatest125dc\_works2



Figures 21A-C



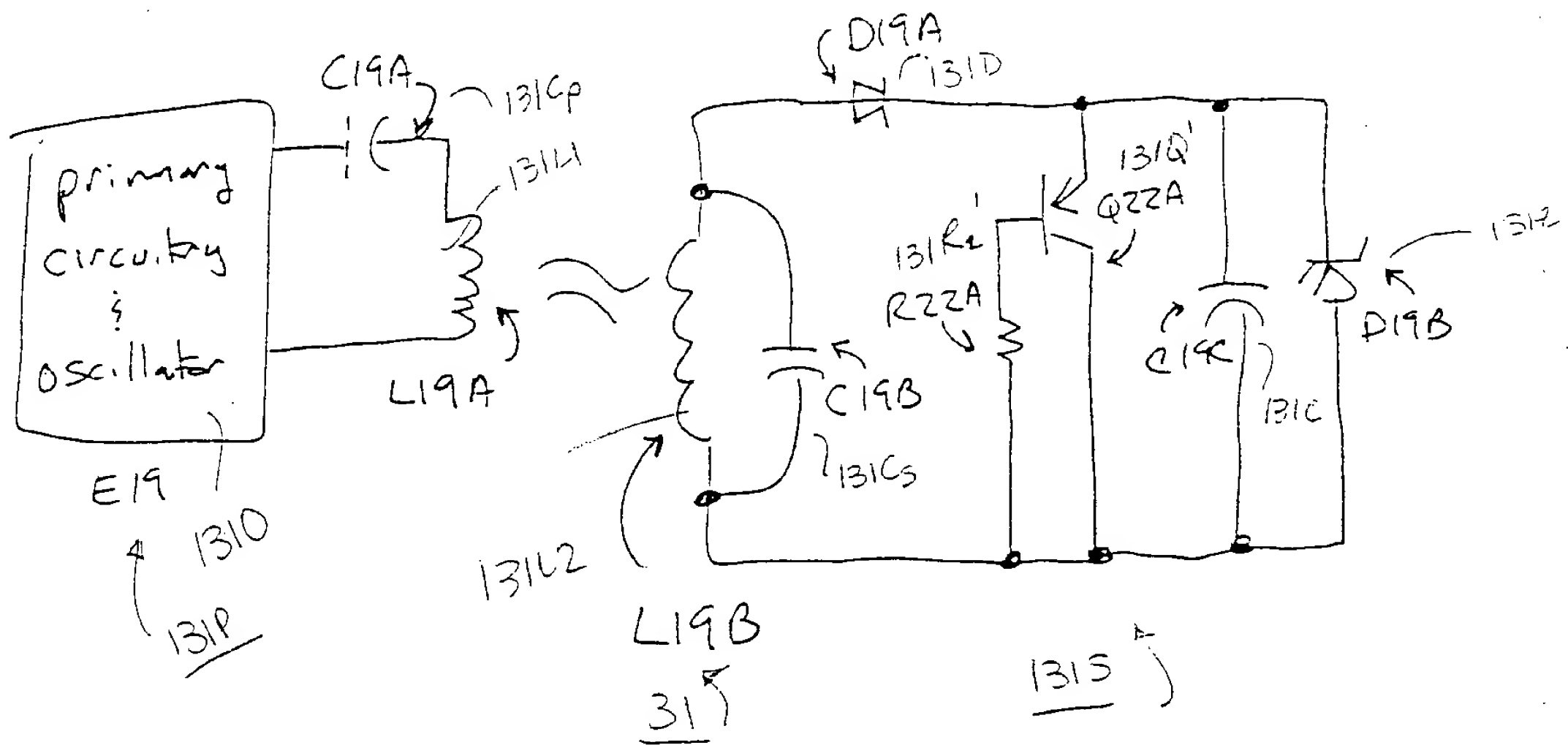


Figure 22

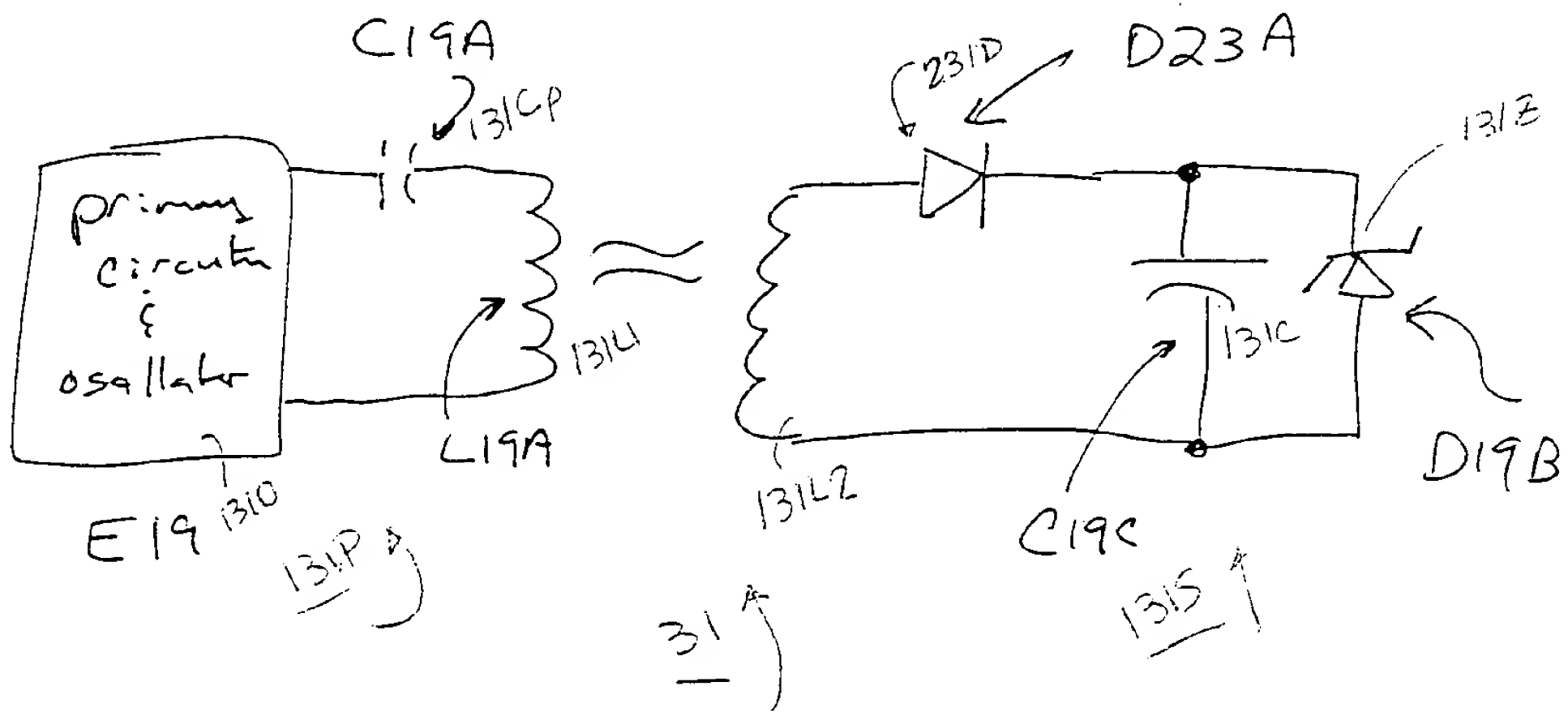
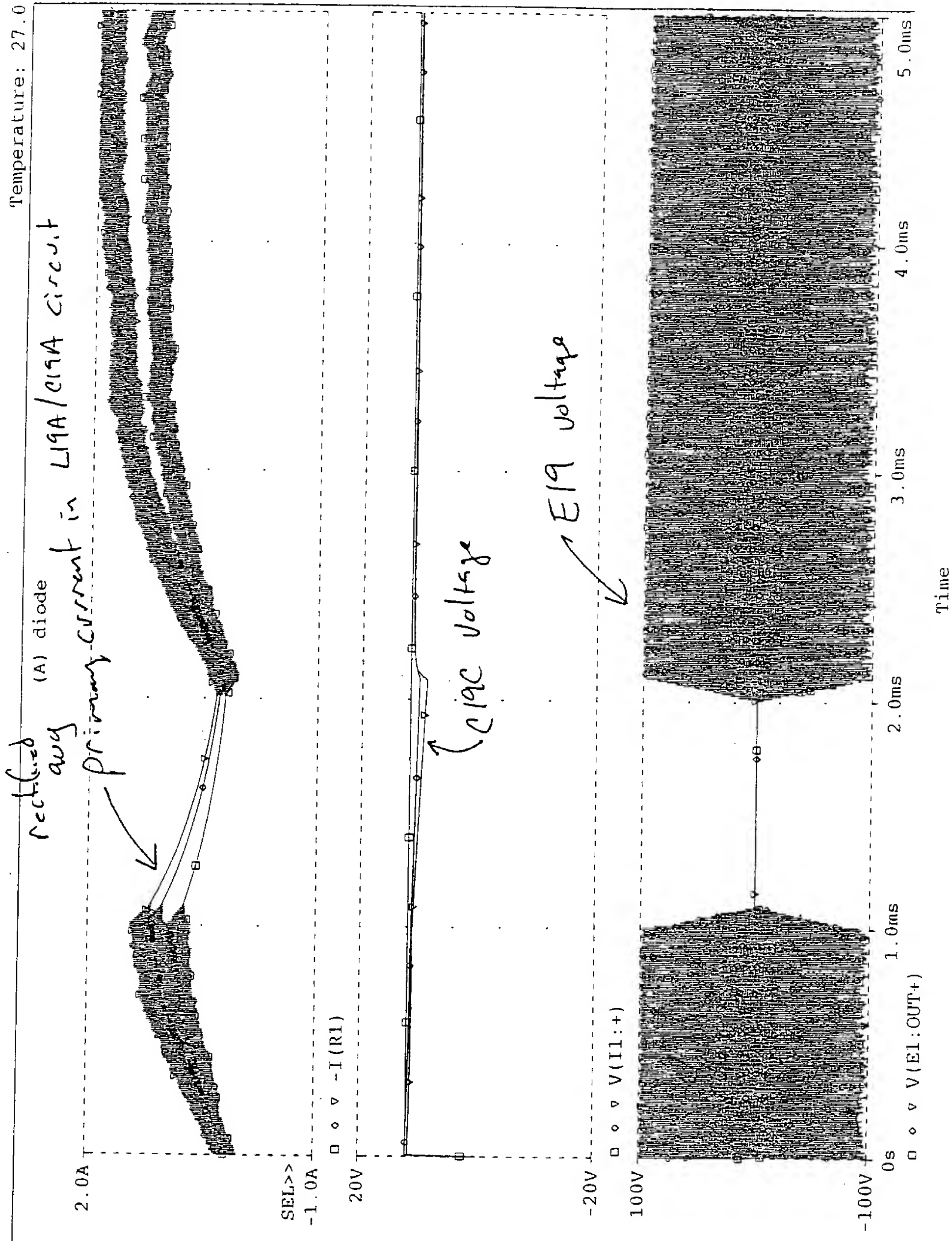


Figure 23



Figures 24A-C

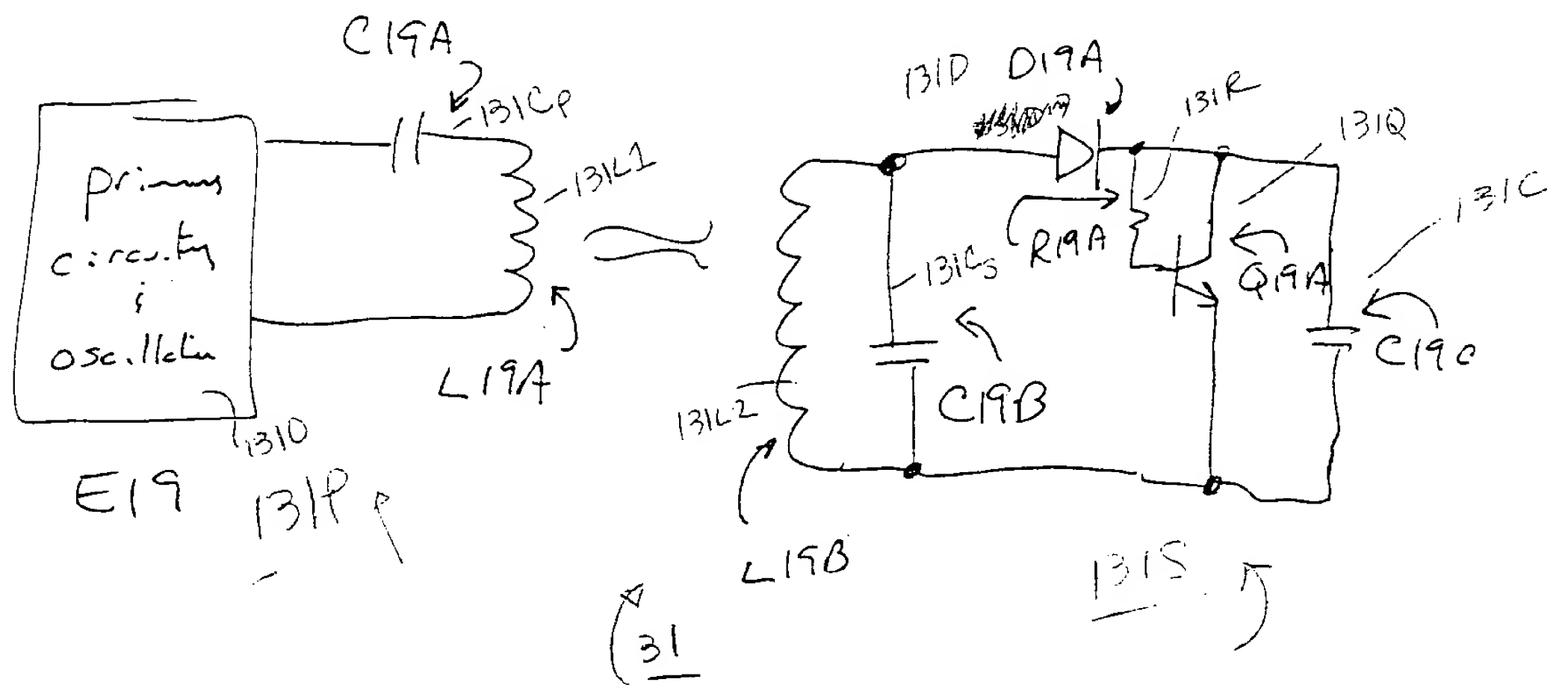


Figure 25

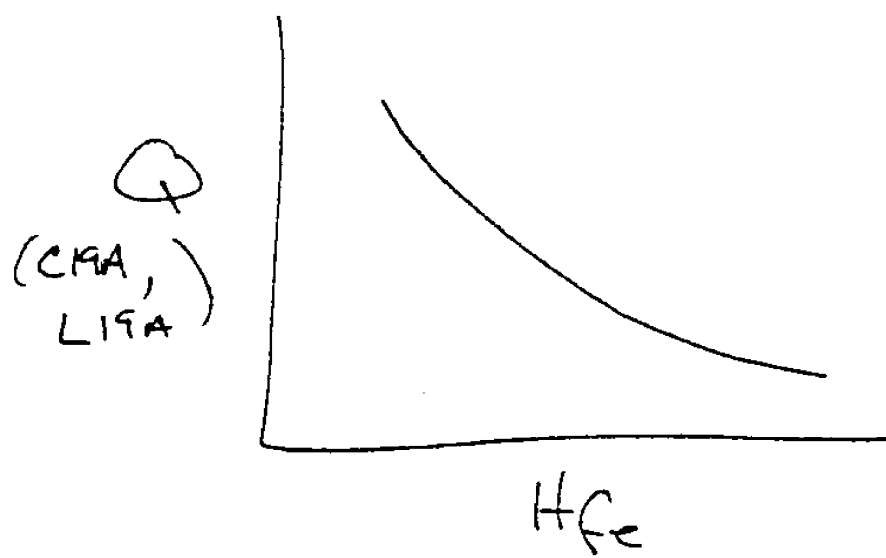


Figure 26.

